

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE March 18, 1959

Operator El Paso Natural Gas		Lease San Juan 28-7 No. 98 (M)	
Location 1800N, 1800E; 29-27-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 9-5/8	Set At: Feet 3071	Tubing Diameter 2"	Set At: Feet 5352
Pay Zone: From 5204	To 5314	Total Depth: 7540 c/o 7481	shut in 3/2/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, inches .75		Choke Constant: C 12.365		7" liner 3018-7534	
Shut-In Pressure, Casing, PSIG (MV) 972	- 12 = PSIA 984	Days Shut-In 16	Shut-In Pressure, Tubing PSIG (MV) 207	- 12 = PSIA 219	
Flowing Pressure, P PSIG 131	- 12 = PSIA 143		Working Pressure: Pw PSIG 441	- 12 = PSIA 453	
Temperature: T F 60			Fpw (From Tables) 1.018	Gravity .740	

Initial SIPT (Dak) = 1871 psig
Final SIPT (Dak) = 1885 psig

Packer at 5790

CHOKE VOLUME - $Q = C \times P_c \times F_c \times F_g \times F_{av}$

$$Q = 12.365 \times 143 \times .9005 \times 1.018$$

= 1621

MCF/D

$$\text{OPEN FLOW} = A_{of} = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

Start unloading after 5 min. unloaded water and dist. for 15 min., then heavy fog remainder of test.

$$A_{of} = \left(\frac{968256}{763047} \right)^n$$

$$1.2689^{.78} \times 1621 = 1.1956 \times 1621$$

$$A_{of} = 1938 \text{ MCF/D}$$

TESTED BY R. R. Davis

WITNESSED BY _____



L. D. Galloway
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